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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/600,295	06/20/2003	John Wu	024827-2701	6301
30542 FOLEY & LAR	7590 04/14/200 RDNER LLP	EXAMINER		
P.O. BOX 8027	-	LY, ANH VU H		
SAN DIEGO, CA 92138-0278			ART UNIT	PAPER NUMBER
			2416	
			MAIL DATE	DELIVERY MODE
			04/14/2009	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)				
	10/600,295	WU ET AL.				
Office Action Summary	Examiner	Art Unit				
	ANH-VU H. LY	2416				
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence ad	ldress			
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
Status						
1) Responsive to communication(s) filed on 19 De	ecember 2008.					
·= · ·						
3) Since this application is in condition for allowan						
closed in accordance with the practice under E	x parte Quayle, 1935 C.D. 11, 45	i3 O.G. 213.				
Disposition of Claims						
4)⊠ Claim(s) <i>1-10,13-40 and 42-50</i> is/are pending i	n the application.					
4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) <u>1-10,14-24,39,40 and 42-50</u> is/are allo	owed.					
6)⊠ Claim(s) <u>13 and 25-38</u> is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/or	election requirement.					
Application Papers						
9) The specification is objected to by the Examiner.						
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.						
Applicant may not request that any objection to the	drawing(s) be held in abeyance. See	37 CFR 1.85(a).				
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the priorical application from the International Bureau * See the attached detailed Office action for a list of	s have been received. s have been received in Application ity documents have been received (PCT Rule 17.2(a)).	on No ed in this National	Stage			
Attachment(s) 1) Notice of References Cited (PTO-892)	4) ☐ Interview Summary	(PTO-413)				
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail Da	nte				
3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	5) Notice of Informal P 6) Other:	atent Application				
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DETAILED ACTION

Response to Amendment

1. This communication is in response to Applicant's amendment filed December 19, 2008. Claims 1-10, 13-40, and 42-50 are pending.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- Claims 13 and 25-38 are rejected under 35 U.S.C. 103(a) as being unpatentable over
 Johansson et al (US Pub 2002/0089968 A1) in view of Vance, Jr. et al (US Pub 2004/0121785
 A1). Hereinafter, referred to as Johansson and Vance.

With respect to claims 13 and 25, Johansson discloses a communication system (Fig. 2), comprising:

a circuit switched network (Fig. 2, circuit-switched connection between wireless communication 20 and SMS-C 40);

a packet switch data network configured to assign network addresses in a dynamic fashion (page 6, 57th paragraph and Figs. 1-2, the application requests the GSM/GPRS network 10 to activate a packet data service to be used by the GPRS station 20 and then receives a dynamically allocated IP address from GSM/GPRS network 10 via GSM/GPRS network);

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a client device configured to send and receive packet switched and circuit switched communications over the packet switched data network and the circuit switched data network, respectively (Fig. 2, wireless communication station 20); and

a central authority configured to a send a circuit switch message to the client device through the circuit switched data network requesting that the client device register with the central authority through the packet switch data network (page 5, 55th – 56th paragraphs, the server 30 connects to the Short Message Service Center (SMS-C) and submits a request to the SMS-C 40 to transmit an SMS short message to a GPRS mobile station 20 having a particular Mobile Station Integrated Services Digital Network (MSISDN) number. The SMS-C 40 sends an SMS message to the GPRS station 20 through the GSM/GPRS network 10 over a GSM signaling channel. Herein, the GSM signaling channel is a circuit-switched signaling channel),

Johansson does not disclose that the central authority is further configured to send a new circuit switch message to the client device if the client device has not communicated with the central authority for a predetermined time.

Vance discloses that during normal GPRS communication between the Messaging Server 501 and the client 504, the Messaging Server first sends a GPRS message to the client 504. If the GPRS message is not acknowledged, then the Messaging Server 501 sends a SMS message to the client 504 (page 3, 48th paragraph. Herein, the SMS message is the new circuit switch message sent to the client after the message timeout). Therefore, it would have been obvious to one having ordinary skill in the art at the time the invention was made to include the feature of resending message to the client device if no feedback is received at the server in Johansson's system, as suggested by Vance, to conclude and verify that status of the connection.

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With respect to claim 26, Johansson discloses that wherein the circuit switch message sent to the client device is a short message service message (Fig. 2, SMS short message is used as a request).

With respect to claim 27, Johansson discloses that wherein the central authority is further configured to receive a packet switched registration message from the client device in response to the circuit switched message sent to the client device (page 6, 58th paragraph and Fig. 2, arrow 4, the GPRS application prepares a response message to be transmitted to the server 30. This response message is now transmitted over the established TCP/IP connection).

With respect to claim 28, Johansson discloses that wherein the central authority is further configured to extract a packet data network address associated with the client device from the packet switch registration message received from the client device (page 6, 59th paragraph, the server application extracts and analyses the included information in the response message. Herein, the message is TCP/IP message therefore it includes the allocated IP address of the GPRS station 20 when it activates a PDP context).

With respect to claim 29, Johansson discloses that wherein the central authority comprises a database configured to store information related to the client device and wherein the central authority is configured to update the data stored in the database based on the information contained in the received packet switched registration message (Fig. 2, the server 30 includes

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memory 33 and 34 for storing information relating to the GPRS station 20, including any updated network address of the GPRS station 20).

With respect to claim 30, Johansson discloses that wherein the central authority is further configured to update the information stored in the database on the packet data network address extracted from the received packet switch registration message (page 6, 59th paragraph and Fig. 2, the server application extracts, analyses, and stores the included information in the response message in server's memory).

With respect to claim 31, Johansson discloses that wherein the central authority is further configured to send a message to the client device using the packet data network address stored in the database (Fig. 1, the server 30 sends a request to the GPRS station 20 via TCP/IP connection 1. Herein, the server already knows the network address of the GPRS station 20 as stored in its database 33 and 34).

With respect to claims 32-33, Johansson discloses that wherein the central authority is further configured to send the circuit switched message to the client device using a circuit switched network address associated with the client device and wherein the circuit switched network address is a mobile identification number associated with the client device (page 5, 55th – 56th paragraphs, that the server 30 connects to the Short Message Service Center (SMS-C) and submits a request to the SMS-C 40 to transmit an SMS short message to a GPRS mobile station 20 having a particular Mobile Station Integrated Services Digital Network (MSISDN) number).

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With respect to claim 34, Johansson discloses a shared secret that is shared between the client device and the central authority, wherein the shared secret is used for authentication (page 5, 56th paragraph, that the SMS message could include an activate code and if the code corresponds to a predefined code which is accepted by the application, the application processing proceeds).

With respect to claim 35, Johansson discloses that wherein the central authority is further configured to encrypt the circuit switched message sent to the client deice using the shared secret (page 5, 56th paragraph, that the SMS message includes an activate code and if the code corresponds to a predefined code which is accepted by the application, the application processing proceeds).

With respect to claim 36, Johansson discloses that wherein the central authority comprises a random or pseudo-random number generator and wherein the circuit switched message sent to the client device includes a random or pseudo-random number generated by the random or pseudo-random number generator (page 5, 56th paragraph, that the SMS message could include an activate code and if the code corresponds to a predefined code which is accepted by the application, the application processing proceeds).

With respect to claim 37, Johansson discloses that wherein the central authority is further configured to encrypt the circuit switched message sent to the client device using a random or pseudo-random number generator by the random or pseudo random number generator (page 5,

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56th paragraph, the SMS message could include an activate code and if the code corresponds to a predefined code which is accepted by the application, the application processing proceeds).

With respect to claim 38, Johansson discloses that wherein the central authority is further configured to receive a packet switched registration message from the client device in response to the circuit switched message sent to the client device, and wherein the central authority is further configured to extract an authentication factor from the packet switched registration message received from the client device (page 6, 59th paragraph).

Allowable Subject Matter

3. Claims 1-10, 14-24, 39-40, and 42-50 are allowed.

The following is a statement of reasons for the indication of allowable subject matter:

The prior art does not teach or fairly suggest the central authority configured to send a circuit switch message to the client device through the circuit switched data network requesting that the client device register with the central authority through the packet switch data network; wherein the client device is further configured to include a packet switched network address with a packet switched registration message sent to the central authority and to send a new packet switched registration message over the packet switched data network whenever the packet switched data network assigns the client device a new packet switched network address, as specified in independent claims 1 and 39.

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Response to Arguments

4. Applicant's arguments filed December 19, 2008 have been fully considered but they are not persuasive.

Applicant argues in page 10 that Vance fails to disclose sending a new circuit switch message to the client device after a message time out. Examiner respectfully disagrees. Vance discloses that during normal GPRS communication between the Messaging Server 501 and the client 504, the Messaging Server first sends a GPRS message to the client 504. If the GPRS message is not acknowledged, then the Messaging Server 501 sends a SMS message to the client 504 (page 3, 48th paragraph. Herein, the SMS message is the new circuit switch message sent to the client after the message timeout).

Conclusion

5. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

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6. Any inquiry concerning this communication or earlier communications from the

examiner should be directed to ANH-VU H. LY whose telephone number is (571)272-3175.

The examiner can normally be reached on Monday-Friday 7:00am - 4:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, William Trost can be reached on 571-272-7872. The fax phone number for the

organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent

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like assistance from a USPTO Customer Service Representative or access to the automated

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/Anh-Vu H Ly/

Primary Examiner, Art Unit 2416